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its representation of life histories of plants so far as these can be shown by dried specimens. In this series of notes Mr. Deane is putting on record some of the information gained in the making of this collection. The fruit of *Nymphæa odorata* Ait., a case of teratology in *Apocynum androsaemifolium* L., and *Typha latifolia* L. are discussed in No. II.

Synopsis of North American Amaranthaceæ, II.:
EDWIN B. ULIN and WM. L. BRAY.

This installment of the paper gives a systematic enumeration of the N. Am. species of the genera *Acnida* and *Gomphrena*. *Acnida tamariscina prostrata* and *Gomphrena Tuerckheimii* are described as new. To the latter *Telanthera Tuerckheimii* Vatke is probably to be referred.

A Reply to Dr. Robinson's Criticism of the 'List of Pteridophyta and Spermatophyta of North-eastern America:' FREDERICK V. COVILLE.

Among *Briefer Articles* Mr. J. Schneck describes and figures the flowering and fruiting of the spider-flower, *Cleome spinosa* L., a subtropical species which reaches up the Mississippi valley as far as S. Ills.; Mr. Geo. H. Shull records some observations on the branching, inflorescence and flowers of *Enslenia albida*, illustrated with a plate; Mr. F. H. Blodgett adds some points to a paper (Bot. Gaz. 19: 61. F 1894) on the development of the bulb of the adder's tongue, *Erythronium Americanum* Ker.; Mr. Thomas Meehan gives a short biographical sketch of the late John H. Redfield of Philadelphia, and Professor W. W. Bailey does the same for the late Mr. George Hunt of Providence, R. I. In a note on the Systematic Botany of North America, Professor N. L. Britton, the chairman of the Board of Editors, gives a list of the parts at present assigned to the collaborators named.

The editorials deal with the discussion on nomenclature and the progress of the Systematic Botany of North America. In the

department of Current Literature Sayre's *Materia Medica* (botanical part), Thomas and Dudley's *Manual of Histology*, and Lister's *Monograph of the Mycetozoa* are reviewed, with briefer mention of several other works. The number closes with six pages of notes and news regarding botanists, their doings and writings.

THE AMERICAN NATURALIST, APRIL.

On the Presence of Fluorine as a Test for the Fossilization of Animal Bones.

Experimental Evolution Amongst Plants: L. H. BAILEY.

Observations on a so-called Petrified Man: J. M. STEDMAN.

On the Validity of the Genus Margaritana: CHAS. T. SIMPSON.

Editor's Table; Recent Literature; Recent Books and Pamphlets; General Notes; Geography and Travels; Mineralogy; Petrography; Geology and Paleontology; Botany; Zoölogy; Entomology; Embryology; Psychology; Archeology and Ethnology; Microscopy.

Proceedings of Scientific Societies; Scientific News.

NEW BOOKS.

The Cambridge Natural History, Vol. III., Molluscs. A. H. COOKE. Brachiopods (recent), A. E. SHIPLEY. Brachiopods (fossil), F. R. C. REED. New York and London, Macmillan & Co. 1895. Pp. xi + 535. \$2.60.

Elements of Mineralogy, Chrystallography and Blowpipe Analysis. ALFRED J. MOSES and CHARLES LATHROP PARSONS. New York, D. Van Nostrand Company. 1895. Pp. vii + 342.

Steam Power and Mill Work. GEO. W. SUTCLIFFE. New York, Macmillan & Co. 1895. \$4.50.

A Treatise on Bessel Functions. ANDREW GRAY and G. B. MATTHEWS. New York, Macmillan & Co. 1895. \$4.50.